

> d his

(FILE 'HOME' ENTERED AT 11:02:48 ON 07 MAY 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 11:03:19 ON 07 MAY 2003

L1 38414 S (SCAVENGER OR ELIMINAT? OR NEUTRALIZ? OR REMOV?) (6A) (FREE(W)R
L2 157564 S SUPEROXIDE(W)DISMUTASE OR METALLOTHIONEIN OR GLUTAMYL(2A)TRAN
L3 9669 S L1 AND L2
L4 5325 S L1(6A)L2
L5 7671267 S PROTEIN OR POLYPEPTIDE OR DNA OR POLYNUCLEOTIDE OR NUCLEIC(W)
L6 357 S L5(4A)L1
L7 199 DUP REM L6 (158 DUPLICATES REMOVED)

=> d au ti so 150-199 l7

L7 ANSWER 150 OF 199 MEDLINE DUPLICATE 67
AU Elias L; Moore P B; Rose S M
TI Tumor necrosis factor induced DNA fragmentation of HL-60 cells.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1988 Dec 30) 157 (3) 963-9.
Journal code: 0372516. ISSN: 0006-291X.

L7 ANSWER 151 OF 199 MEDLINE DUPLICATE 68
AU Igumenov V L; Sharonov B P; Pasechnik V A
TI [Aggregation of membrane proteins of E. coli cells after treatment with singlet oxygen].
Agregatsiia membrannykh belkov kletok E. coli pri deistvii singletnogo kislороda.
SO BIOKHIMIYA, (1988 Jun) 53 (6) 925-30.
Journal code: 0372667. ISSN: 0320-9725.

L7 ANSWER 152 OF 199 MEDLINE DUPLICATE 69
AU Sharonov B P; Govorova N Iu; Lyslova S N
TI [Antioxidative properties and degradation of serum proteins by active oxygen forms (O2-., OCl-) generated by stimulated neutrophils].
Antiokislitel'nye svoistva i degradatsiia belkov syvorotki aktivnymi formami kislороda (O2-., OCl-), generiruemyi stimulirovannymi neitrofilami.
SO BIOKHIMIYA, (1988 May) 53 (5) 816-25.
Journal code: 0372667. ISSN: 0320-9725.

L7 ANSWER 153 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU OGINO T; INOUE M; ANDO Y; AWAI M; MAEDA H; MORINO Y
TI CHEMICAL MODIFICATION OF SUPEROXIDE DISMUTASE EXTENSION OF PLASMA HALF LIFE OF THE ENZYME THROUGH ITS REVERSIBLE BINDING TO THE CIRCULATING ALBUMIN.
SO INT J PEPT PROTEIN RES, (1988) 32 (2), 153-159.
CODEN: IJPPC3. ISSN: 0367-8377.

L7 ANSWER 154 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU SOLOMONSON L P; MCCREERY M J; KAY C J; BARBER M J
TI RADIATION INACTIVATION ANALYSIS OF ASSIMILATORY NADH NITRATE REDUCTASE APPARENT FUNCTIONAL SIZES OF PARTIAL ACTIVITIES ASSOCIATED WITH INTACT AND PROTEOLYTICALLY MODIFIED ENZYME.
SO J BIOL CHEM, (1987) 262 (18), 8934-8939.
CODEN: JBCHA3. ISSN: 0021-9258.

L7 ANSWER 155 OF 199 MEDLINE DUPLICATE 70
AU Walford R L; Harris S B; Weindruch R
TI Dietary restriction and aging: historical phases, mechanisms and current directions.
SO JOURNAL OF NUTRITION, (1987 Oct) 117 (10) 1650-4. Ref: 51
Journal code: 0404243. ISSN: 0022-3166.

L7 ANSWER 156 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU WALFORD R L; HARRIS S B; WEINDRUCH R
 TI DIETARY RESTRICTION AND AGING HISTORICAL PHASES MECHANISMS AND CURRENT DIRECTIONS.
 SO J NUTR, (1987) 117 (110), 1650-1654.
 CODEN: JONUAI. ISSN: 0022-3166.

L7 ANSWER 157 OF 199 MEDLINE DUPLICATE 71
 AU Lee K S; Roschenthaler R
 TI Strand scissions of DNA by patulin in the presence of reducing agents and cupric ions.
 SO JOURNAL OF ANTIBIOTICS, (1987 May) 40 (5) 692-6.
 Journal code: 0151115. ISSN: 0021-8820.

L7 ANSWER 158 OF 199 MEDLINE DUPLICATE 72
 AU Kiss Z; Deli E; Kuo J F
 TI Phorbol ester inhibits phosphatidylserine synthesis in human promyelocytic leukaemia HL60 cells. Possible involvement of free radicals and correlation with phosphorylation of nuclear protein 1b.
 SO BIOCHEMICAL JOURNAL, (1987 Dec 15) 248 (3) 649 56.
 Journal code: 2984726R. ISSN: 0264-6021.

L7 ANSWER 159 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU MUNGER C; YANOVICH S; GEWIRTZ D A
 TI INTERACTION OF DAUNORUBICIN WITH THE H-35 RAT HEPATOMA.
 SO SEVENTY-EIGHTH ANNUAL MEETING OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH, ATLANTA, GEORGIA, USA, MAY 20-23, 1987. PROC AM ASSOC CANCER RES ANNU MEET. (1987) 28 (0), 268.
 CODEN: PAMREA.

L7 ANSWER 160 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU MURATA A; SUENAGA H; HIDESHIMA S; TANAKA Y; KATO F
 TI HYDROXYL RADICAL AS THE REACTIVE SPECIES IN THE INACTIVATION OF PHAGES BY ASCORBIC-ACID.
 SO AGRIC BIOL CHEM, (1986) 50 (6), 1481-1488.
 CODEN: ABCHA6. ISSN: 0002-1369.

L7 ANSWER 161 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU WATANABE K; KASHIGE N; NAKASHIMA Y; HAYASHIDA M; SUMOTO K
 TI DNA STRAND SCISSION BY D GLUCOSAMINE AND ITS PHOSPHATES IN PLASMID P-BR-322.
 SO AGRIC BIOL CHEM, (1986) 50 (6), 1459-1466.
 CODEN: ABCHA6. ISSN: 0002-1369.

L7 ANSWER 162 OF 199 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 73
 AU Held, Kathryn D.
 TI Role of **free radical scavengers** in radiation protection of **DNA**
 SO Modern Aging Research (1986), 8(Free Radicals, Aging, Degener. Dis.), 527-68
 CODEN: MARDDR; ISSN: 0275-360X

L7 ANSWER 163 OF 199 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 74
 AU Jeon, Jeong Dong; Lee, Chung Soo; Park, Soo Soung
 TI Roles of oxygen radicals, metal ions and reducing agents in tissue damages caused by x-ray irradiation
 SO Chungang Uidaechi (1986), 11(3), 195-213
 CODEN: CJMEDQ; ISSN: 0253-6250

L7 ANSWER 164 OF 199 CAPLUS COPYRIGHT 2003 ACS
 IN Kauffman, Jim W.; Laughlin, William C.; Baldwin, Roger A.
 TI Removal of sulfate and metals from aqueous solutions
 SO U.S., 6 pp.

CODEN: USXXAM

L7 ANSWER 165 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU NANJOU S; FUJII S; TANAKA K; UEDA K; KOMANO T
TI INDUCTION OF SINGLE STRAND SCISSION IN PHI-X-174 REPLICATIVE FORM I DNA BY
D ISOGLUCOSAMINE.
SO AGRIC BIOL CHEM, (1985) 49 (2), 459-466.
CODEN: ABCHA6. ISSN: 0002-1369.

L7 ANSWER 166 OF 199 CAPLUS COPYRIGHT 2003 ACS
IN Denney, Jerry W.
TI Assay method and reagent composition for the determination of magnesium
SO U.S., 5 pp.
CODEN: USXXAM

L7 ANSWER 167 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU LEWIS D A
TI ENDOGENOUS ANTIINFLAMMATORY FACTORS.
SO Biochem. Pharmacol., (1984) 33 (11), 1705-1714.
CODEN: BCPCA6. ISSN: 0006-2952.

L7 ANSWER 168 OF 199 BIOSIS COPYFIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU BOTCHERBY P K; MAGNUS I A; MARIMO B; GIANNELLI F
TI ACTINIC RETICULOID AN IDIOPATHIC PHOTO DERMATOSIS WITH CELLULAR
SENSITIVITY TO NEAR UV RADIATION.
SO PHOTOCHEM PHOTOBIO, (1984) 39 (5), 641-650.
CODEN: PHCBAP. ISSN: 0031-8655.

L7 ANSWER 169 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU KENSLER T W; TRUSH M A
TI ROLE OF OXYGEN RADICALS IN TUMOR PROMOTION.
SO Environ. Mutagen., (1984) 6 (4), 593-616.
CODEN: ENMUDM. ISSN: 0192-2521.

L7 ANSWER 170 OF 199 MEDLINE DUPLICATE 75
AU Lovstad R A
TI Catecholamine stimulation of copper dependent haemolysis: protective
action of **superoxide** dismutase, catalase, hydroxyl radical
scavengers and serum **proteins** (ceruloplasmin, albumin
and apotransferrin).
SO ACTA PHARMACOLOGICA ET TOXICOLOGICA, (1984 May) 54 (5) 340-5.
Journal code: 0370572. ISSN: 0001-6683.

L7 ANSWER 171 OF 199 MEDLINE
AU Eizirik D L; Migliorini R H
TI New trends in diabetes research: the search for an etiologically oriented
treatment for type I diabetes mellitus.
SO BRAZILIAN JOURNAL OF MEDICAL AND BIOLOGICAL RESEARCH, (1983 Dec) 16 (4)
381-3.
Journal code: 8112917. ISSN: 0100-879X.

L7 ANSWER 172 OF 199 CAPLUS COPYRIGHT 2003 ACS
AU Ricchelli, Fernanda; Rossi, Eliana; Salvato, Benedetto; Jori, Giulio;
Bannister, Joe V.; Bannister, William H.
TI Fluorescence studies on copper/zinc superoxide dismutase from bovine
erythrocytes
SO Oxy Radicals Their Scavenger Syst., Proc. Int. Conf. Superoxide Superoxide
Dismutase, 3rd (1983), Meeting Date 1982, Volume 1, 320-3. Editor(s):
Cohen, Gerald; Greenwald, Robert A. Publisher: Elsevier, New York, N. Y.
CODEN: 50LBAN

L7 ANSWER 173 OF 199 SCISEARCH COPYRIGHT 2003 THOMSON ISI
AU WOZNIAC A J (Reprint); HANDE K R; ROSS W E
TI **FREE-RADICAL SCAVENGERS** INHIBIT VP-16

INDUCED **DNA** DAMAGE AND CYTO-TOXICITY
SO PROCEEDINGS OF THE AMERICAN ASSOCIATION OF CANCER RESEARCH, (1983) Vol.
24, No. MAR, pp. 319.

L7 ANSWER 174 OF 199 CAPLUS COPYRIGHT 2003 ACS
AU Burk, Raymond F.
TI Glutathione-dependent protection by rat liver microsomal protein against
lipid peroxidation
SO Biochimica et Biophysica Acta (1983), 757(1), 21-8
CODEN: BBACAQ; ISSN: 0006-3002

L7 ANSWER 175 OF 199 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 76
AU Morita, Junji; Komano, Tohru
TI Induction of strand break in DNA by reducing sugar phosphates
SO Agricultural and Biological Chemistry (1983), 47(1), 11-18
CODEN: ABCHA6; ISSN: 0002-1369

L7 ANSWER 176 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU GUTTERIDGE J M C; HALLIWELL B
TI THE ROLE OF SUPER OXIDE AND HYDROXYL RADICALS IN THE DEGRADATION OF DNA
AND DEOXY RIBOSE INDUCED BY A COPPER PHENANTHROLINE COMPLEX.
SO BIOCHEM PHARMACOL, (1982) 31 (17), 2801-2806.
CODEN: BCPCA6. ISSN: 0006-2952.

L7 ANSWER 177 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU NISHIDA K-I; TAKAGI M; YANO K
TI ESCHERICHIA-COLI CELL INACTIVATION BY SUPER OXIDE ANION AND HYDROGEN PER
OXIDE.
SO J GEN APPL MICROBIOL, (1981 (RECD 1982)) 27 (6), 477-486.
CODEN: JGAMA9. ISSN: 0022-1260.

L7 ANSWER 178 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU APELBAUM A; BURGOON A C; ANDERSON J D; SOLOMOS T; LIEBERMAN M
TI SOME CHARACTERISTICS OF THE SYSTEM CONVERTING 1 AMINO CYCLO
PROPANE-1-CARBOXYLIC-ACID TO ETHYLENE.
SO PLANT PHYSIOL (BETHESDA), (1981) 67 (1), 80-84.
CODEN: PLPHAY. ISSN: 0032-0889.

L7 ANSWER 179 OF 199 MEDLINE DUPLICATE 77
AU Feldberg R S; Carew J A
TI Water radiolysis products and nucleotide damage in gamma-irradiated DNA.
SO INTERNATIONAL JOURNAL OF RADIATION BIOLOGY AND RELATED STUDIES IN PHYSICS,
CHEMISTRY AND MEDICINE, (1981 Jul) 40 (1) 11-7.
Journal code: 0374725. ISSN: 0020-7616.

L7 ANSWER 180 OF 199 CAPLUS COPYRIGHT 2003 ACS
IN Saida, Eiichi; Hayatsu, Kazuo
TI Purification of heavy metal-contaminated rice
SO Jpn. Tokkyo Koho, 3 pp.
CODEN: JAXXAD

L7 ANSWER 181 OF 199 CAPLUS COPYRIGHT 2003 ACS
IN Yamaguchi, Michio; Suzuki, Kazumasa
TI Heavy metal-binding proteins
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF

L7 ANSWER 182 OF 199 MEDLINE DUPLICATE 78
AU Lengfelder E
TI On the action of diethyldithiocarbamate as inhibitor of copper-zinc
superoxide dismutase.
SO ZEITSCHRIFT FUR NATURFORSCHUNG. SECTION C. BIOSCIENCES, (1979 Dec) 34 (12)
1292-4.
Journal code: 7801143. ISSN: 0341-0382.

L7 ANSWER 183 OF 199 CAPLUS COPYRIGHT 2003 ACS
 IN Itabashi, Osamu; Goto, Tomio; Izumi, Gaku
 TI **Removal of heavy metal ions with soluble protein**
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF

L7 ANSWER 184 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU MUDD J A; SWANSON R E
 TI IN-SITU CROSS LINKING OF VESICULAR STOMATITIS VIRUS PROTEINS WITH REVERSIBLE AGENTS.
 SO VIROLOGY, (1978) 88 (2), 263-280.
 CODEN: VIPLAX. ISSN: 0042-6822.

L7 ANSWER 185 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU NACHTOMI E; SARMA D S R
 TI REPAIR OF RAT LIVER DNA IN-VIVO DAMAGED BY ETHYLENE DI BROMIDE.
 SO BIOCHEM PHARMACOL, (1977) 26 (20), 1941-1946.
 CODEN: BCPCA6. ISSN: 0006-2952.

L7 ANSWER 186 OF 199 CAPLUS COPYRIGHT 2003 ACS
 IN Kuzumoto, Hideshi; Ukai, Tetsuo; Numata, Katsuhisa
 TI Production of ultrafiltration membrane
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF

L7 ANSWER 187 OF 199 CAPLUS COPYRIGHT 2003 ACS
 IN Kusunoki, Yasuo; Nakano, Fumiko; Koishi, Hidehiko
 TI Granular adsorbents for treatment of waste waters and waste gases
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF

L7 ANSWER 188 OF 199 CAPLUS COPYRIGHT 2003 ACS
 IN Terajima, Kazuku; Tomita, Shigeru; Matsuda, Yoshindo; Abe, Keiji
 TI Adsorbent containing nitrohumic acid
 SO Ger. Offen., 19 pp.
 CODEN: GWXXBX

L7 ANSWER 189 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU VAN HEMMEN J J; MEULING W J A
 TI INACTIVATION OF BIOLOGICALLY ACTIVE DNA BY GAMMA-RAY INDUCED SUPER OXIDE RADICALS AND THEIR DIS MUTATION PRODUCTS SINGLET MOLECULAR OXYGEN AND HYDROGEN PER OXIDE.
 SO BIOCHIM BIOPHYS ACTA, (1975) 402 (2), 133-141.
 CODEN: BBACAQ. ISSN: 0006-3002.

L7 ANSWER 190 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Sugiura, Yukio; Tanaka, Hisashi
 TI Interaction of chelating agents with mercury-203, cadmium-115m, and zinc-65 bound to protein
 SO Radioisotopes (1970), 19(1), 7-12
 CODEN: RAISAB; ISSN: 0033-8303

L7 ANSWER 191 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Kirschner, Kasper; Voigt, Brigitte
 TI Criteria for the purity of the crystallizable isoenzyme of D-glyceraldehyde-3-phosphate dehydrogenase from bakers' yeast
 SO Hoppe-Seyler's Zeitschrift fuer Physiologische Chemie (1968), 349(5), 632-44
 CODEN: HSZPAZ; ISSN: 0018-4888

L7 ANSWER 192 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Bongyik, Arpad

TI Effect of clarifying agents and handling on the stability of the Italian riesling from Badacsony
 SO Borgazdasag (1967), 15(1), 22-9
 CODEN: BORGBB; ISSN: 0006-7741

L7 ANSWER 193 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Greweling, Thomas; Davison, K. L.; Morris, Clayton J.
 TI Determination of nitrate nitrogen in bovine blood, milk, urine, and rumen liquor
 SO J. Agr. Food Chem. (1964), 12(2), 139-40

L7 ANSWER 194 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Kudryashov, B. A.; Andreenko, G. V.; Egorov, N. S.; Strukova, S. M.; Landau, N. S.
 TI Fibrinolytic agents isolated from cultures of some saprophytic fungi
 SO Dokl. Akad. Nauk SSSR (1963), 153(4), 939-42

L7 ANSWER 195 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Zuman, P.; Zumanova, R.
 TI Polarographic study of the reaction of 2,3-dimercapto-1-propanol (BAL) with heavy metals and various oxidants
 SO Tetrahedron (1957), 1, 298-300

L7 ANSWER 196 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Wegner, Hans; Osthege, Anton
 TI Purification of starch hydrolyzates by synthetic resins
 SO Die Starke (1954), 6, 44-52

L7 ANSWER 197 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Ritter, U.
 TI 2,3-Dimercapto-1-propanol, a new specific for the treatment of heavy metal poisonings
 SO Chem. Tech. (Berlin) (1953), 5, 374-5

L7 ANSWER 198 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Kehoe, R. A.
 TI The activation of an enzyme poisoned by heavy metal salts
 SO J. Lab. Clin. Med. (1922), 7, 736-42

L7 ANSWER 199 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Heard, W. Nevill
 TI The Reaction between Metallic Salts and the Soluble Carbonates and its Bearing upon the Precipitation of Protein
 SO J. Physiol. (1913), 46, 104-28

=> d ab 173 17

L7 ANSWER 173 OF 199 SCISEARCH COPYRIGHT 2003 THOMSON ISI

=> d ab 162 17

L7 ANSWER 162 OF 199 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 73
 AB A review with 125 refs. of the title subject in relation to aging.

=> d 100-149 au ti so 17

L7 ANSWER 100 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Cerrati, A.; Bonfioli, C.; Dacco, R.; Keble, M.; Motta, F.; Vota, M.
 TI Protection exerted by antiprotease substances against toxic effects of antitumor chemotherapeutics
 SO Current Toxicology and Therapy (1996), 4, 25-31

- L7 ANSWER 101 OF 199 CAPLUS COPYRIGHT 2003 ACS
IN Saito, Hidenao; Fujita, Masao
TI Immobilized tannin for **removal** of contaminated **protein**
and **heavy metal**
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
- L7 ANSWER 102 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
DUPLICATE 45
AU Mark, Robert J.; Hensley, Kenneth; Butterfield, D. Allan; Mattson, Mark P.
(1)
TI Amyloid beta-peptide impairs ion-motive ATPase activities: Evidence for a
role in loss of neuronal Ca-2+ homeostasis and cell death.
SO Journal of Neuroscience, (1995) Vol. 15, No. 9, pp. 6239-6249.
ISSN: 0270-6474.
- L7 ANSWER 103 OF 199 MEDLINE DUPLICATE 46
AU Weis M; Schlegel J; Kass G E; Holmstrom T H; Peters I; Eriksson J;
Orrenius S; Chow S C
TI Cellular events in Fas/APO-1-mediated apoptosis in JURKAT T lymphocytes.
SO EXPERIMENTAL CELL RESEARCH, (1995 Aug) 219 (2) 699-708.
Journal code: 0373226. ISSN: 0014-4827.
- L7 ANSWER 104 OF 199 MEDLINE DUPLICATE 47
AU Behl C; Rupprecht R; Skutella T; Holsboer F
TI Haloperidol-induced cell death--mechanism and protection with vitamin E in
vitro.
SO NEUROREPORT, (1995 Dec 29) 7 (1) 360-4.
Journal code: 9100935. ISSN: 0959-4965.
- L7 ANSWER 105 OF 199 CAPLUS COPYRIGHT 2003 ACS
AU Tie, Jianke; Li, Lingyuan; Ru, Binggen; Ci, Yunxiang
TI Free radical scavenging and DNA damage protection by metallothionein
SO Shengwu Wuli Xuebao (1995), 11(2), 276-82
CODEN: SWXUEN; ISSN: 1000-6737
- L7 ANSWER 106 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
DUPLICATE 48
AU Ono, Tetsuyoshi; Negishi, Kazuo; Hayatsu, Hikoya (1)
TI Spectra of superoxide-induced mutations in the lacI gene of a wild-type
and a mutM strain of Escherichia coli K-12.
SO Mutation Research, (1995) Vol. 326, No. 2, pp. 175-183.
ISSN: 0027-5107.
- L7 ANSWER 107 OF 199 MEDLINE DUPLICATE 49
AU Shi X; Mao Y; Ahmed N; Jiang H
TI HPLC investigation on Ni(II)-mediated DNA damage in the presence of
t-butyl hydroperoxide and glutathione.
SO JOURNAL OF INORGANIC BIOCHEMISTRY, (1995 Feb) 57 (2) 91-102.
Journal code: 7905788. ISSN: 0162-0134.
- L7 ANSWER 108 OF 199 MEDLINE DUPLICATE 50
AU Fester T; Schuster W
TI Potato mitochondrial manganese superoxide dismutase is an RNA-binding
protein.
SO BIOCHEMISTRY AND MOLECULAR BIOLOGY INTERNATIONAL, (1995 May) 36 (1) 67-75.
Journal code: 9306673. ISSN: 1039-9712.
- L7 ANSWER 109 OF 199 CAPLUS COPYRIGHT 2003 ACS
IN Cubbage, Michael Lee; Ju, Shyh Chen; Bresser, Joel; Jurtshuk, Rebecca
TI Free radical scavengers useful for reducing autofluorescence in fixed
cells

SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2

L7 ANSWER 110 OF 199 MEDLINE DUPLICATE 51
AU Miyao M
TI Involvement of active oxygen species in degradation of the D1 protein under strong illumination in isolated subcomplexes of photosystem II.
SO BIOCHEMISTRY, (1994 Aug 16) 33 (32) 9722-30.
Journal code: 0370623. ISSN: 0006-2960.

L7 ANSWER 111 OF 199 CAPLUS COPYRIGHT 2003 ACS
AU Fischer-Nielsen, Anne; Jeding, Inge Boegh; Loft, Steffen
TI Radiation-induced formation of 8-hydroxy-2'-deoxyguanosine and its prevention by scavengers
SO Carcinogenesis (1994), 15(8), 1609-12
CODEN: CRNGDP; ISSN: 0143-3334

L7 ANSWER 112 OF 199 MEDLINE DUPLICATE 52
AU Suarez-Pinzon W L; Strynadka K; Schulz R; Rabinovitch A
TI Mechanisms of cytokine-induced destruction of rat insulinoma cells: the role of nitric oxide.
SO ENDOCRINOLOGY, (1994 Mar) 134 (3) 1006-10.
Journal code: 0375040. ISSN: 0013-7227.

L7 ANSWER 113 OF 199 MEDLINE DUPLICATE 53
AU Gao F M; Jiang H Y; Yu L; Li X L; Wang W H; Duan Y B; Zhou H N
TI Studies on mechanisms and blockade of carcinogenic action of female sex hormones.
SO SCIENCE IN CHINA. SERIES B, CHEMISTRY, LIFE SCIENCES AND EARTH SCIENCES, (1994 Apr) 37 (4) 418-29.
Journal code: 8913082. ISSN: 1001-652X.

L7 ANSWER 114 OF 199 CAPLUS COPYRIGHT 2003 ACS
AU Reiter, Russel J.; Tan, Dun-xian; Poeggeler, Burkhard; Chen, Li-dun; Menendez-Pelaez, Armando
TI Melatonin, free radicals and cancer initiation
SO Advances in Pineal Research (1994), 7, 211-28
CODEN: APIREW; ISSN: 0269-0071

L7 ANSWER 115 OF 199 MEDLINE DUPLICATE 54
AU Runge-Morris M; Wu N; Novak R F
TI Hydrazine-mediated DNA damage: role of hemoprotein, electron transport, and organic free radicals.
SO TOXICOLOGY AND APPLIED PHARMACOLOGY, (1994 Mar) 125 (1) 123-32.
Journal code: 0416575. ISSN: 0041-008X.

L7 ANSWER 116 OF 199 MEDLINE DUPLICATE 55
AU Larsen C J
TI [The BCL2 gene, prototype of a gene family that controls programmed cell death (apoptosis)].
Le gene BCL2, chef de file d'une famille de genes controlant la mort cellulaire programmee (apoptose).
SO ANNALES DE GENETIQUE, (1994) 37 (3) 121-34. Ref: 99
Journal code: 0370562. ISSN: 0003-3995.

L7 ANSWER 117 OF 199 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 56
AU Erdem, Gunhan; Oner, Cihan; Onal, Ahmet M.; Kisakurek, Duygu; Ogus, Ay
TI Free radical mediated interaction of ascorbic acid and ascorbate/Cu(II) with viral and plasmid DNAs
SO Journal of Biosciences (Bangalore, India) (1994), 19(1), 9-17
CODEN: JOBSDN; ISSN: 0250-5991

L7 ANSWER 118 OF 199 MEDLINE DUPLICATE 57
AU Schaechter J D; Benowitz L I

TI Activation of protein kinase C by arachidonic acid selectively enhances
 the phosphorylation of GAP-43 in nerve terminal membranes.
 SO JOURNAL OF NEUROSCIENCE, (1993 Oct) 13 (10) 4361-71.
 Journal code: 8102140. ISSN: 0270-6474.

L7 ANSWER 119 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Adamska, Iwona; Kloppstech, Klaus
 TI The effect of free radical enhancers and scavengers on accumulation of
 early light-inducible protein during light stress
 SO Zeitschrift fuer Naturforschung, C: Journal of Biosciences (1993),
 48(3-4), 391-6
 CODEN: ZNCBDA; ISSN: 0341-0382

L7 ANSWER 120 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Wang, Ai-Guo; Ye, Fa-Hui; Luo, Guang-Hua
 TI Damage of high-molecular-weight DNA in peanut leaves by effect of
 activated oxygen
 SO Zhiwu Shenglixue Tongxun (1993), 29(4), 260-2
 CODEN: CHWSAX; ISSN: 0412-0922

L7 ANSWER 121 OF 199 MEDLINE DUPLICATE 58
 AU Toyokuni S; Sagripanti J L
 TI Induction of oxidative single- and double-strand breaks in DNA by ferric
 citrate.
 SO FREE RADICAL BIOLOGY AND MEDICINE, (1993 Aug) 15 (2) 117-23.
 Journal code: 8709159. ISSN: 0891-5849.

L7 ANSWER 122 OF 199 MEDLINE DUPLICATE 59
 AU Natsuyama S; Noda Y; Yamashita M; Nagahama Y; Mori T
 TI Superoxide dismutase and thioredoxin restore defective p34cdc2 kinase
 activation in mouse two-cell block.
 SO BIOCHIMICA ET BIOPHYSICA ACTA, (1993 Mar 10) 1176 (1-2) 90-4.
 Journal code: 0217513. ISSN: 0006-3002.

L7 ANSWER 123 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU L'vov, K. M.; Iskakov, A. A.
 TI Mechanism of death of free radical states in proteins
 SO Biofizika (1993), 38(1), 7-11
 CODEN: BIOFAI; ISSN: 0006-3029

L7 ANSWER 124 OF 199 CAPLUS COPYRIGHT 2003 ACS
 IN Volpe, Gabriel
 TI Apparatus for water treatment, especially for wastewater and aquarium
 water treatment
 SO Ger. Offen., 4 pp.
 CODEN: GWXXBX

L7 ANSWER 125 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Sakagami, Hiroshi; Kohno, Sachiko; Takeda, Minoru; Nakamura, Kunie;
 Nomoto, Keiko; Ueno, Ikuko; Kanegasaki, Shiro; Naoe, Tomoko; Kawazoe,
 Yutaka
 TI Superoxide scavenging activity of lignins, tannins and PSK
 SO Anticancer Research (1992), 12(6B), 1995-2000
 CODEN: ANTRD4; ISSN: 0250-7005

L7 ANSWER 126 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU PAPI A; FELISATTI G; RAVENNA F; FABBRI L M; CIACCIA A; CHICCA M; MUZZOLI
 V; PINAMONTI S
 TI INCREASED OXIDANT-INDUCED CLASTOGENIC ACTIVITY IN BRONCHOALVEOLAR LAVAGE
 FLUID OBTAINED FROM SUBJECTS WITH CHRONIC BRONCHITIS.
 SO 1992 INTERNATIONAL CONFERENCE OF THE AMERICAN LUNG ASSOCIATION AND THE
 AMERICAN THORACIC SOCIETY, MIAMI BEACH, FLORIDA, USA, MAY 17-20, 1992. AM
 REV RESPIR DIS. (1992) 145 (4 PART 2), A570.
 CODEN: APDSBL. ISSN: 0003-0805.

L7 ANSWER 127 OF 199 MEDLINE DUPLICATE 60
 AU Yamamoto K; Kawanishi S
 TI Site-specific DNA damage by phenylhydrazine and phenelzine in the presence of Cu(II) ion or Fe(III) complexes: roles of active oxygen species and carbon radicals.
 SO CHEMICAL RESEARCH IN TOXICOLOGY, (1992 May-Jun) 5 (3) 440-6.
 Journal code: 8807448. ISSN: 0893-228X.

L7 ANSWER 128 OF 199 SCISEARCH COPYRIGHT 2003 THOMSON ISI
 AU TOYOKUNI S; SAGRIPANTI J L (Reprint)
 TI IRON-MEDIATED DNA DAMAGE - SENSITIVE DETECTION OF DNA STRAND BREAKAGE CATALYZED BY IRON
 SO JOURNAL OF INORGANIC BIOCHEMISTRY, (15 AUG 1992) Vol. 47, No. 3-4, pp. 241-248.
 ISSN: 0162-0134.

L7 ANSWER 129 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Ghosh, S.; Bupp, S.
 TI Stimulation of biological uptake of heavy metals
 SO Water Science and Technology (1992), 26(1-2, Water Qual. Int. '92, Pt. 1), 227-36
 CODEN: WSTED4; ISSN: 0273-1223

L7 ANSWER 130 OF 199 SCISEARCH COPYRIGHT 2003 THOMSON ISI
 AU MEHLHORN R J (Reprint); SWANSON C E
 TI NITROXIDE-STIMULATED H2O2 DECOMPOSITION BY PEROXIDASES AND PSEUDOPEROXIDASES
 SO FREE RADICAL RESEARCH COMMUNICATIONS, (1992) Vol. 17, No. 3, pp. 157-175.
 ISSN: 8755-0199.

L7 ANSWER 131 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU GHOSAL A; IBA M M
 TI ENHANCEMENT BY BUTYLATED HYDROXYTOLUENE OF THE IN-VITRO ACTIVATION OF 3 3' DICHLOROBENZIDINE.
 SO MUTAT RES, (1992) 278 (1), 31-42.
 CODEN: MUREAV. ISSN: 0027-5107.

L7 ANSWER 132 OF 199 MEDLINE DUPLICATE 61
 AU Young W
 TI Role of calcium in central nervous system injuries.
 SO JOURNAL OF NEUROTRAUMA, (1992 Mar) 9 Suppl 1 S9-25. Ref: 383
 Journal code: 8811626. ISSN: 0897-7151.

L7 ANSWER 133 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Zhou, Pingkun; Wei, Kang
 TI Measurement of DNA double strand breaks in mammalian cells after ionizing radiation by pulsed field gel electrophoresis
 SO Shengwu Huaxue Zazhi (1991), 7(5), 513-17
 CODEN: SHZAE4; ISSN: 1000-8543

L7 ANSWER 134 OF 199 CAPLUS COPYRIGHT 2003 ACS
 AU Sienko, Sofia; Eis-Huebinger, Anna Maria; Schneweis, Karl Eduard
 TI The role of free radical scavengers, inhibitors of prostaglandin synthesis, and hypomethylating agents in reactivation of latent herpes simplex virus
 SO Medical Microbiology and Immunology (1991), 180(5), 249-59
 CODEN: MMIYAO; ISSN: 0300-8584

L7 ANSWER 135 OF 199 MEDLINE DUPLICATE 62
 AU Wang Z Y; Agarwal R; Zhou Z C; Bickers D R; Mukhtar H
 TI Antimutagenic and antitumorigenic activities of nordihydroguaiaretic acid.
 SO MUTATION RESEARCH, (1991 Nov) 261 (3) 153-62.
 Journal code: 0400763. ISSN: 0027-5107.

- L7 ANSWER 136 OF 199 CAPLUS COPYRIGHT 2003 ACS
 IN Jackson, Paul James; Delhaize, Emmanuel; Robinson, Nigel J.; Unkefer, Clifford; Furlong, Clement Eugene
 TI Removal of metal ions from aqueous solutions
 SO Ger. Offen., 6 pp.
 CODEN: GWXXBX
- L7 ANSWER 137 OF 199 MEDLINE DUPLICATE 63
 AU Benke P J; Levcovitz H; Paupe J; Tozman E
 TI Scavengers of free radical oxygen affect the generation of low molecular weight DNA in stimulated lymphocytes from patients with systemic lupus erythematosus.
 SO METABOLISM: CLINICAL AND EXPERIMENTAL, (1990 Dec) 39 (12) 1278-84.
 Journal code: 0375267. ISSN: 0026-0495.
- L7 ANSWER 138 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU KUDOU M; KUDOU T; MATSUKI A
 TI CHANGES OF PLASMA SUPEROXIDE DISMUTASE-LIKE ACTIVITY DURING GENERAL ANESTHESIA AND SURGERY IN MAN.
 SO JPN J ANESTHESIOLOGY, (1990) 39 (9), 1172-1177.
 CODEN: MASUAC. ISSN: 0021-4892.
- L7 ANSWER 139 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU SCHNEIDER J E; PRICE S; MAIDT L; GUTTERIDGE J M C; FLOYD R A
 TI METHYLENE BLUE PLUS LIGHT MEDIATES 8 HYDROXY-2'-DEOXYGUANOSINE FORMATION IN DNA PREFERENTIALLY OVER STRAND BREAKAGE.
 SO NUCLEIC ACIDS RES, (1990) 18 (3), 631-636.
 CODEN: NARHAD. ISSN: 0305-1048.
- L7 ANSWER 140 OF 199 MEDLINE
 AU Van Maanen J M; Mans D R; Lafleur M V; Van Schaik M A; de Vries J; Vermeulen N P; Retel J; Lankelma J
 TI Effects of oxygen radical scavengers on the inactivation of SS phi X174 DNA by the semi-quinone free radical of the antitumor agent etoposide.
 SO FREE RADICAL RESEARCH COMMUNICATIONS, (1990) 9 (2) 69-86.
 Journal code: 8709453. ISSN: 8755-0199.
- L7 ANSWER 141 OF 199 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 64
 AU Bremner, I.; Beattie, J. H.
 TI Metallothionein and the trace minerals
 SO Annual Review of Nutrition (1990), 10, 63-83
 CODEN: ARNTD8; ISSN: 0199-9885
- L7 ANSWER 142 OF 199 CAPLUS COPYRIGHT 2003 ACS
 IN Kroll, Juergen; Kujawa, Manfred; Kroeck, Regina; Schnaak, Werner
 TI Glucosinolate-free protein preparations from rape seed
 SO Ger. (East), 6 pp.
 CODEN: GEXXA8
- L7 ANSWER 143 OF 199 MEDLINE DUPLICATE 65
 AU Pavlik A; Pilar J
 TI Protection of cell **proteins** against **free-radical** attack by nootropic drugs: **scavenger** effect of pyritinol confirmed by electron spin resonance spectroscopy.
 SO NEUROPHARMACOLOGY, (1989 Jun) 28 (6) 557-61.
 Journal code: 0236217. ISSN: 0028-3908.
- L7 ANSWER 144 OF 199 SCISEARCH COPYRIGHT 2003 THOMSON ISI
 AU PAVLIK A (Reprint); PILAR J
 TI PROTECTION OF CELL-**PROTEINS** AGAINST **FREE-RADICAL** ATTACK BY NOOTROPIC DRUGS - **SCAVENGER** EFFECT OF PYRITINOL CONFIRMED BY ELECTRON-SPIN RESONANCE SPECTROSCOPY
 SO NEUROPHARMACOLOGY, (1989) Vol. 28, No. 6, pp. 557-561.

L7 ANSWER 145 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU SUN T J; ESSENBERG M; MELCHER U
TI PHOTOACTIVATED DNA NICKING ENZYME INACTIVATION AND BACTERIAL INHIBITION BY
SESQUITERPENOID PHYTOALEXINS FROM COTTON.
SO MOL PLANT-MICROBE INTERACT, (1989) 2 (3), 139-147.
CODEN: MPMIEL.

L7 ANSWER 146 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU LIOTTI F S; BODO M; MARIUCCI G; MENGHINI A R; GUERRIERI P; BRUSCHELLI G
TI THE ROLE OF ANTIOXIDANT ENZYMES IN BENZO-A-PYRENE-INDUCED CARCINOGENESIS.
SO BULL CANCER (PARIS), (1989) 76 (1), 43-50.
CODEN: BUCABS. ISSN: 0007-4551.

L7 ANSWER 147 OF 199 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AU PRASAD M R; SAMANTA A; GEORGE A; DAS D K
TI ROLE OF FATTY ACID BINDING **PROTEIN** FABP AS **FREE**
RADICAL SCAVENGER.
SO SYMPOSIUM ON THE PHARMACOLOGIC MECHANISMS AND HEART DISEASE HELD AT THE
XIIIITH CONGRESS OF THE INTERNATIONAL SOCIETY FOR HEART RESEARCH AND THE
ELEVENTH ANNUAL MEETING OF THE INTERNATIONAL SOCIETY FOR HEART RESEARCH
(AMERICAN SECTION), ANN ARBOR, MICHIGAN, USA, MAY 14-18, 1989. J MOL CELL
CARDIOL. (1989) 21 (SUPPL 2), S33.
CODEN: JMCDAJ. ISSN: 0022-2828.

L7 ANSWER 148 OF 199 CAPLUS COPYRIGHT 2003 ACS
IN Oikawa, Yukio
TI Divalent **heavy metals** in simple method for
removal of protein impurities from **DNA**
solutions
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF

L7 ANSWER 149 OF 199 MEDLINE DUPLICATE 66
AU Maniar N; Krishan A; Israel M; Samy T S
TI Anthracycline-induced DNA breaks and resealing in doxorubicin-resistant
murine leukemic P388 cells.
SO BIOCHEMICAL PHARMACOLOGY, (1988 May 1) 37 (9) 1763-72.
Journal code: 0101032. ISSN: 0006-2952.

=> d ab 134 17

L7 ANSWER 134 OF 199 CAPLUS COPYRIGHT 2003 ACS
AB Reactivation of herpes simplex virus (HSV) was assumed to be dependent on
prostaglandin synthesis. Since free radicals are generated in the course
of prostaglandin synthesis and inhibitors of prostaglandin synthesis are
free radical scavengers, the question arose whether free radicals are most
important in viral reactivation. Therefore, the influence of five
different inhibitors of prostaglandin synthesis was compared with the
activity of two combinations of classical radical scavengers. Since the
efficiency of both groups of compds. was similar, the role of free
radicals in viral reactivation was strongly assumed, whereas the role of
prostaglandins has to be revisited. All drugs tested were effective in
the early phase after explantation of the latently infected ganglia and
could be omitted in the later stages of co-cultivation. As free radicals
are suspected of activating nuclear factors, it was of interest to confirm
the enhancement of HSV reactivation by DNA hypomethylating drugs.
5-Azacytidine proved to be more effective than dimethylsulfoxide (DMSO).
The effect of combinations of DMSO with inhibitors of prostaglandin
synthesis was dependent on the mode of action of the inhibitors.